



SPEC® CINT2006 Result

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Intel Corporation

SPECint®2006 = 23.6

Asus P5E3 Deluxe (Intel Core 2 Extreme QX6850)

SPECint_base2006 = 21.6

CPU2006 license: 13

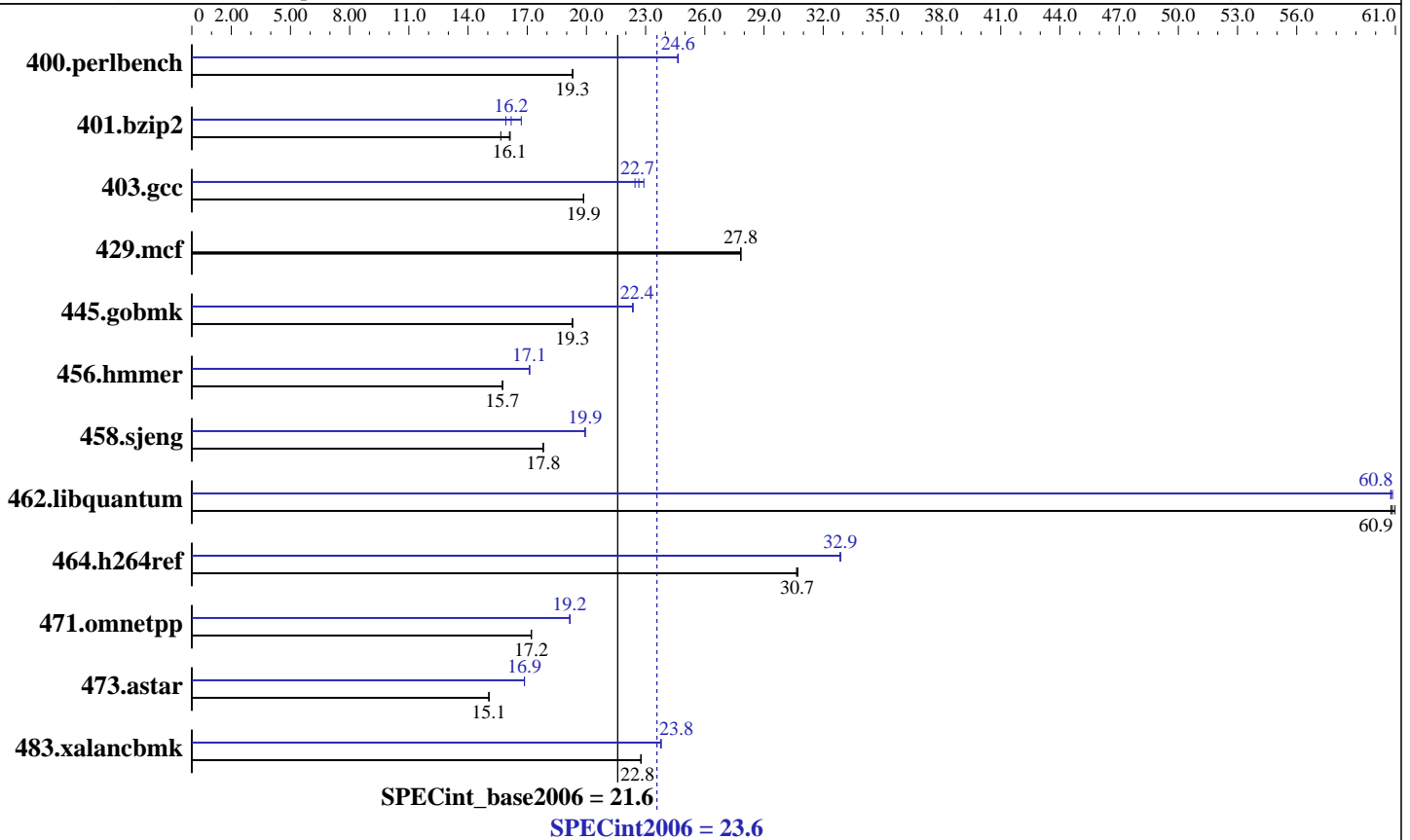
Test date: Nov-2007

Test sponsor: Intel Corporation

Hardware Availability: Nov-2007

Tested by: Intel Corporation

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Extreme QX6850
 CPU Characteristics: 3.00 GHz 1333 MHz FSB
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 4 GB (4x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)
 Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows Vista64 Ultimate
 Compiler: Intel C++ Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_cc_p_10.1.011
 Microsoft Visual Studio 2005 SP1 (for libraries)
 Auto Parallel: Yes
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.1 from <http://www.microquill.com/>



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Results Table

| Benchmark | Base | | | | | | Peak | | | | | |
|----------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 400.perlbench | 507 | 19.3 | 506 | 19.3 | 506 | 19.3 | 397 | 24.6 | 396 | 24.6 | 396 | 24.7 |
| 401.bzip2 | 599 | 16.1 | 616 | 15.7 | 598 | 16.1 | 596 | 16.2 | 606 | 15.9 | 578 | 16.7 |
| 403.gcc | 405 | 19.9 | 405 | 19.9 | 406 | 19.8 | 351 | 22.9 | 358 | 22.5 | 355 | 22.7 |
| 429.mcf | 328 | 27.8 | 328 | 27.8 | 328 | 27.8 | 328 | 27.8 | 328 | 27.8 | 328 | 27.8 |
| 445.gobmk | 544 | 19.3 | 544 | 19.3 | 544 | 19.3 | 469 | 22.4 | 469 | 22.4 | 469 | 22.3 |
| 456.hammer | 592 | 15.8 | 593 | 15.7 | 592 | 15.7 | 545 | 17.1 | 545 | 17.1 | 545 | 17.1 |
| 458.sjeng | 679 | 17.8 | 679 | 17.8 | 679 | 17.8 | 607 | 19.9 | 607 | 19.9 | 607 | 19.9 |
| 462.libquantum | 340 | 60.9 | 340 | 61.0 | 341 | 60.8 | 340 | 60.9 | 341 | 60.8 | 341 | 60.8 |
| 464.h264ref | 722 | 30.6 | 721 | 30.7 | 721 | 30.7 | 674 | 32.9 | 673 | 32.9 | 673 | 32.9 |
| 471.omnetpp | 363 | 17.2 | 363 | 17.2 | 363 | 17.2 | 326 | 19.2 | 326 | 19.2 | 326 | 19.2 |
| 473.astar | 466 | 15.1 | 466 | 15.1 | 466 | 15.1 | 417 | 16.9 | 416 | 16.9 | 416 | 16.9 |
| 483.xalancbmk | 303 | 22.8 | 303 | 22.8 | 303 | 22.8 | 290 | 23.8 | 290 | 23.8 | 290 | 23.8 |

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 11/2007:

<http://www.asus.com/products.aspx?l1=3&l2=11&l3=572&l4=0&model=1872&modelmenu=1>

The system bus runs at 1333 MHz

System was configured with Asus EN8800GTX discrete graphics card

Binaries were built on Windows Vista32

The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

C++ benchmarks:

```
icl -Qvc8
```

Portability Flags

```
403.gcc: -DSPEC_CPU_WIN32
```

```
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
```

```
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword
```



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Base Optimization Flags

C benchmarks:

-fast -Qparallel -Qpar-runtime-control -Qvec-guard-write /F512000000
libguide40.lib

C++ benchmarks:

-fast -Qcxx_features /F512000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qprefetch -Qparallel -Qpar-runtime-control /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
/F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
libguide40.lib

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo
-Qprec-div- -Qansi-alias /F512000000

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qansi-alias -Qopt-multi-version-aggressive /F512000000
libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll14
/F512000000 libguide40.lib

462.libquantum: -fast -Qunroll14 -Ob0 -Qprefetch
-Qopt-streaming-stores:always -Qparallel
-Qpar-runtime-control /F512000000 libguide40.lib

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll12
-Qansi-alias /F512000000 libguide40.lib

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=block -Qcxx_features /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qopt-ra-region-strategy=routine -Qcxx_features /F512000000
shlw32m.lib libguide40.lib -link /FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F512000000 shlw32m.lib libguide40.lib
-link /FORCE:MULTIPLE

Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.09.xml>

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For other inquiries, please contact webmaster@spec.org.

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